FIG. 1

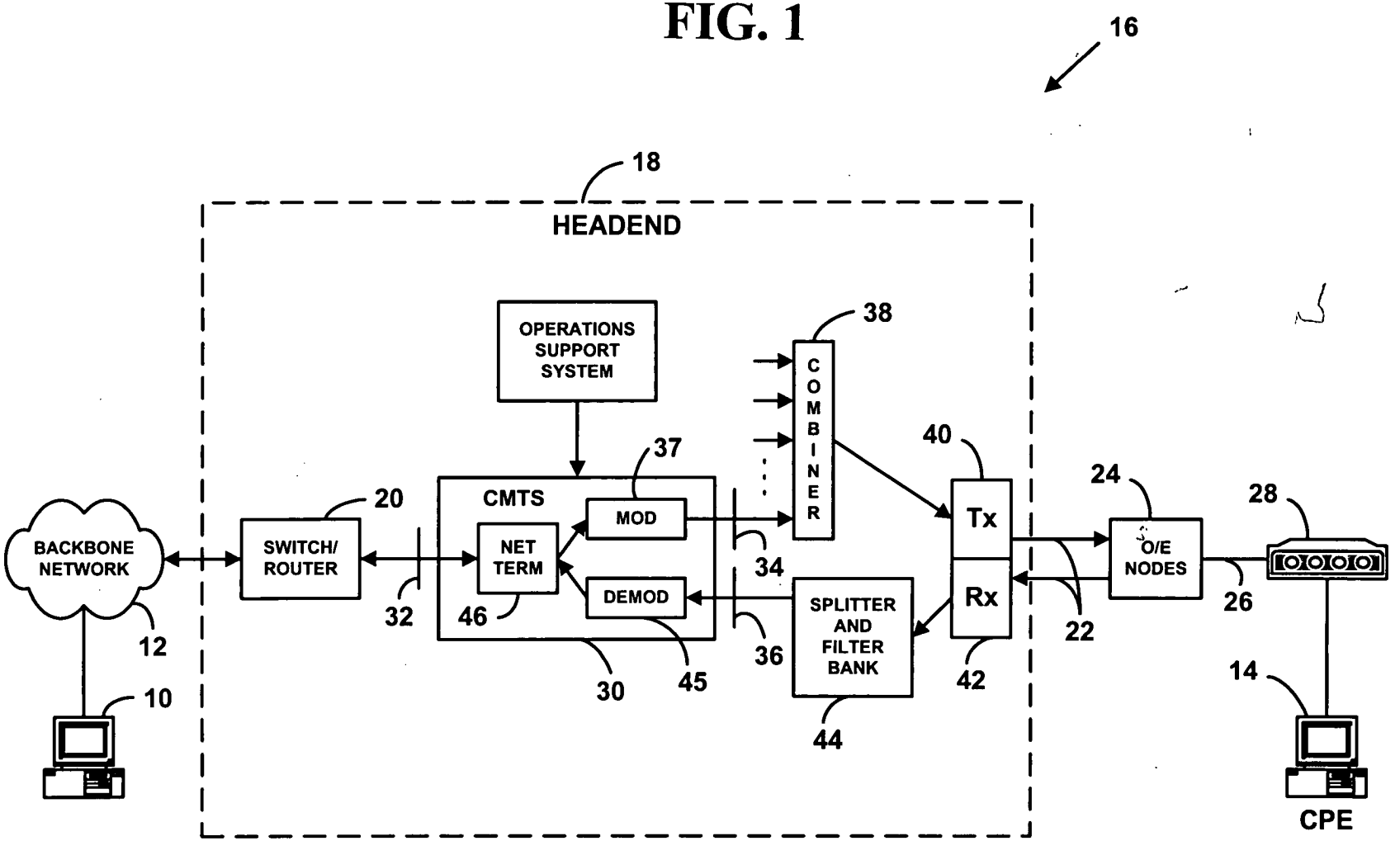
16
18
HEADEND
OPERATIONS SUPPORT SYSTEM
38
COMBINER
37
CMTS
MOD
NET TERM
DEMOD
46
30
45
34
36
40
Tx
Rx
42
SPLITTER AND FILTER BANK
44
24
O/E NODES
22
28
26
14
CPE
BACKBONE NETWORK
12
10
SWITCH/ ROUTER
20
32

FIG. 2

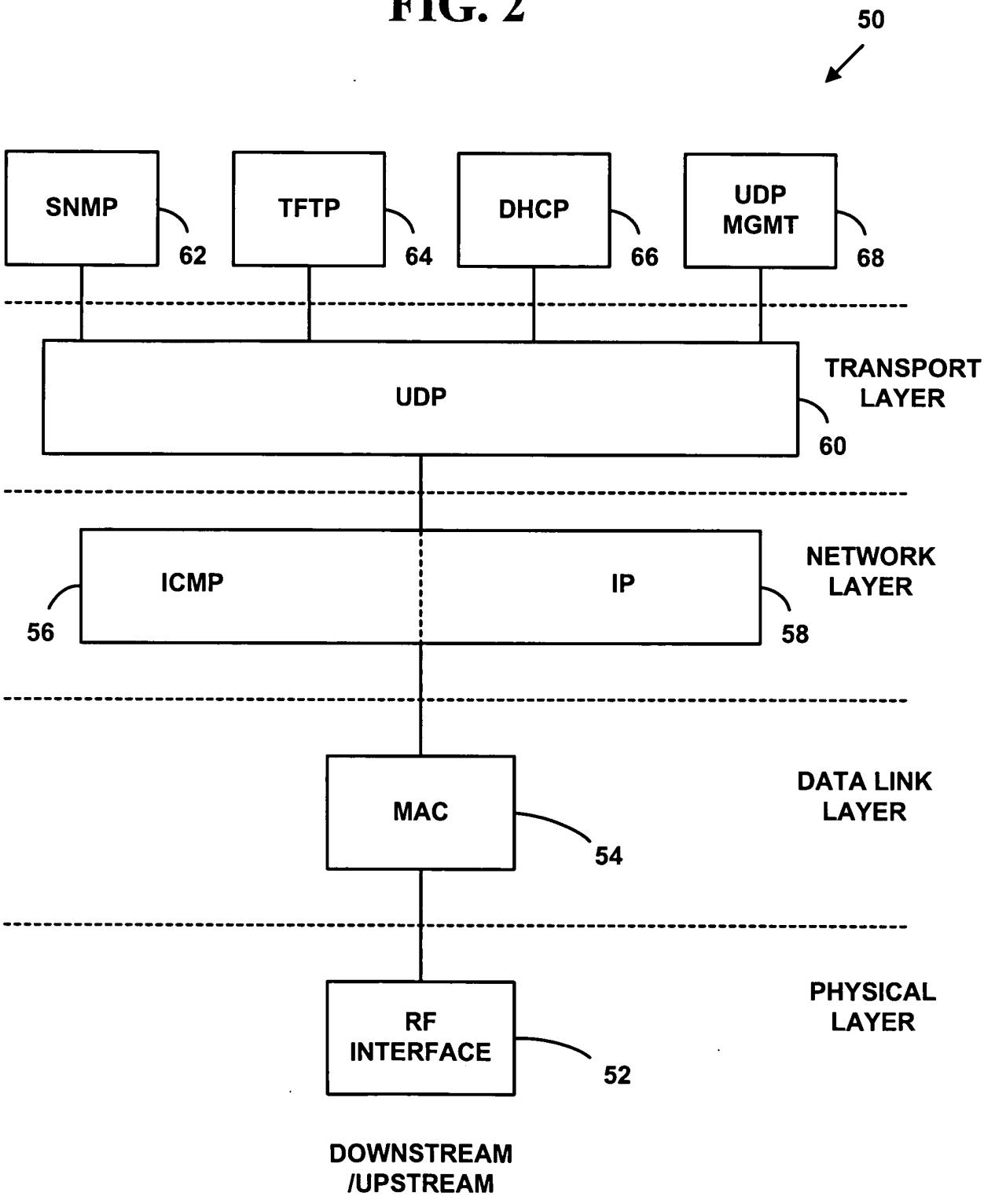
50
SNMP
62
TFTP
64
DHCP
66
UDP MGMT
68
UDP
TRANSPORT LAYER
60
ICMP
56
IP
58
NETWORK LAYER
MAC
54
DATA LINK LAYER
RF INTERFACE
52
PHYSICAL LAYER
DOWNSTREAM /UPSTREAM

FIG. 3

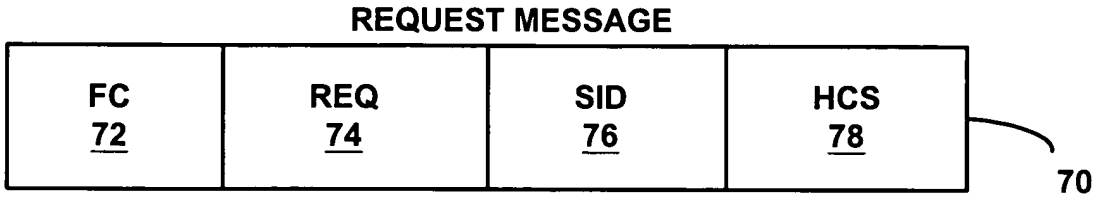

FIG. 4

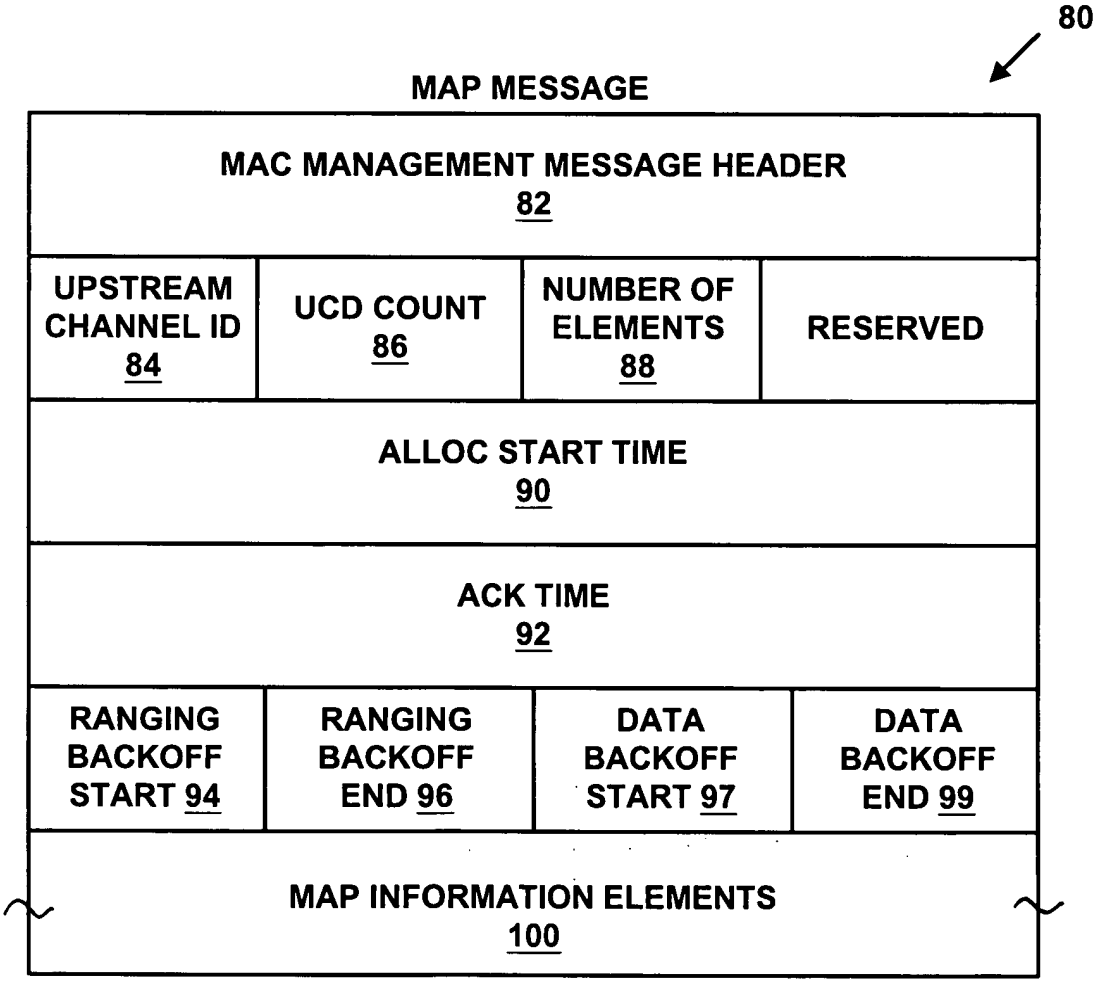

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FIG. 5

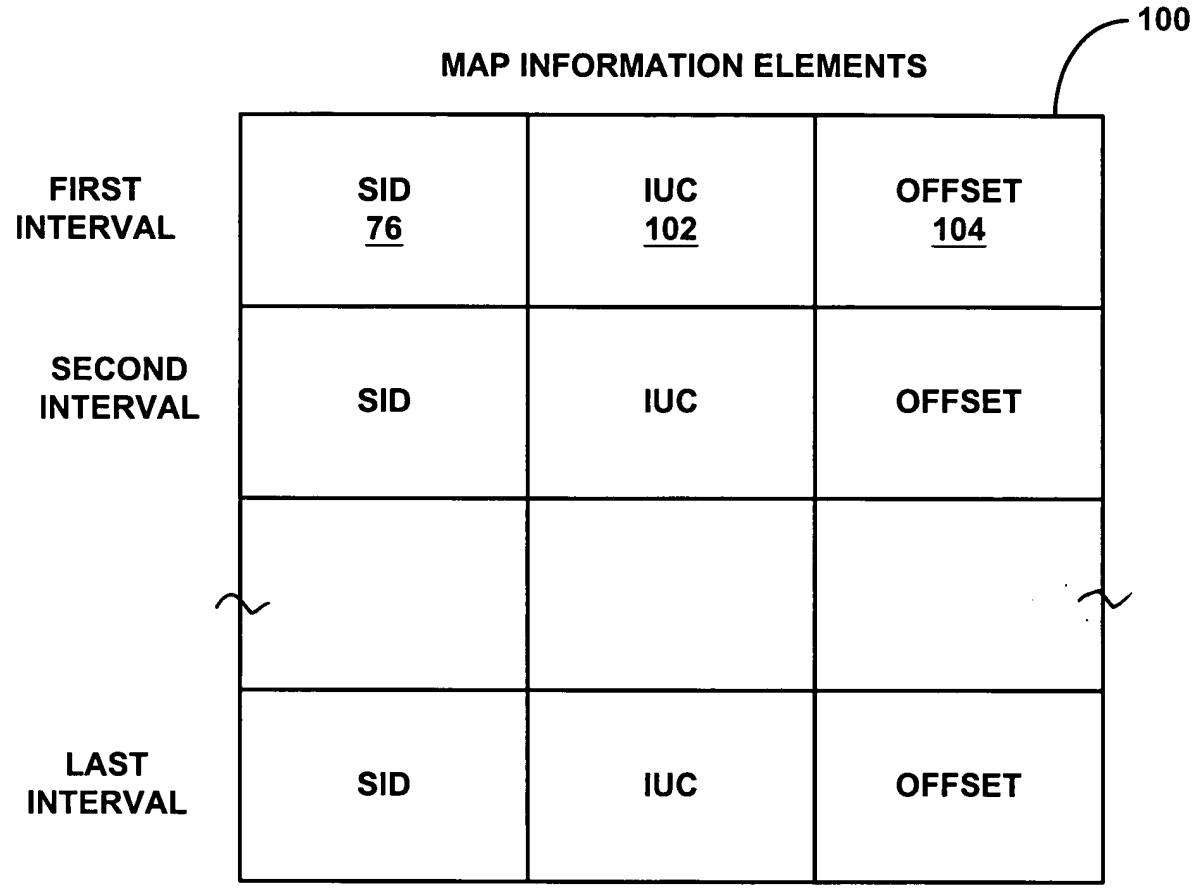
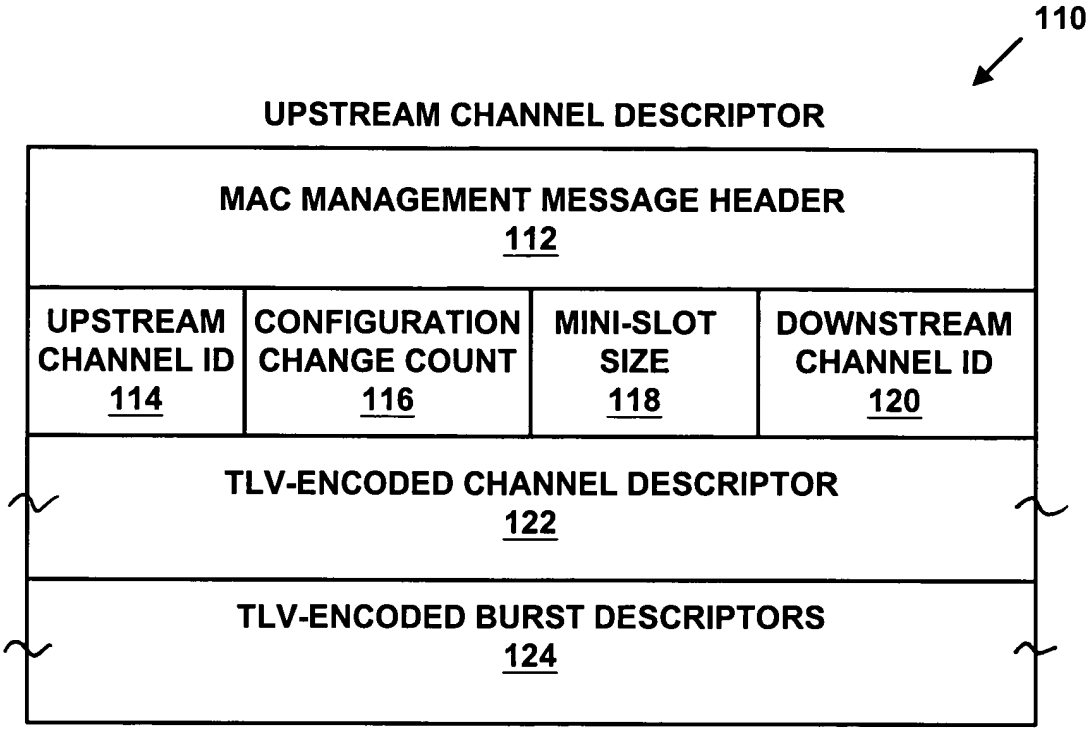

100
MAP INFORMATION ELEMENTS
FIRST INTERVAL
SECOND INTERVAL
LAST INTERVAL
SID 76
IUC 102
OFFSET 104
SID
IUC
OFFSET
SID
IUC
OFFSET

FIG. 6



0005741360.0

FIG. 7

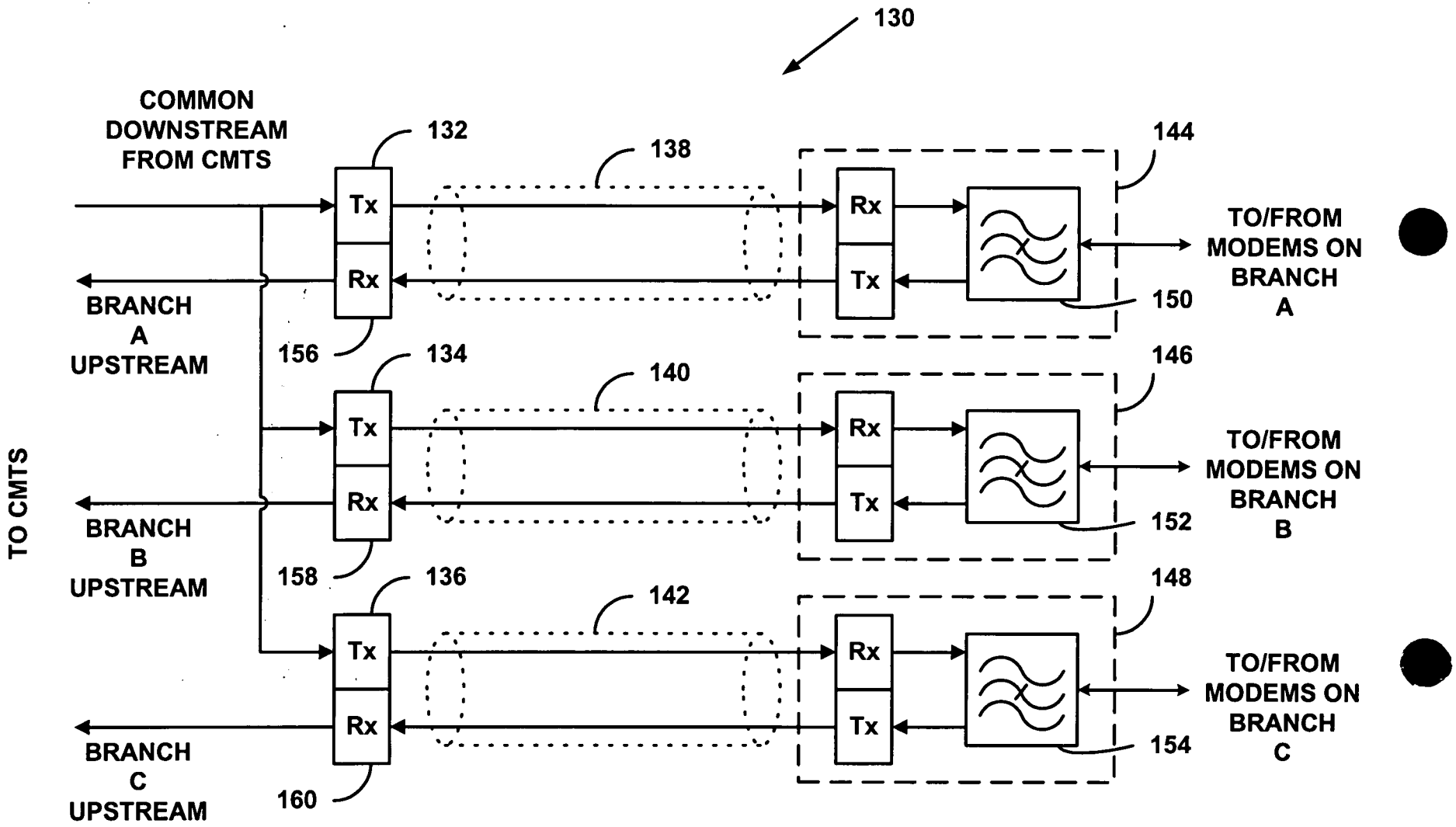

130
COMMON DOWNSTREAM FROM CMTS
132
138
144
Tx
Rx
Rx
Tx
TO/FROM MODEMS ON BRANCH A
150
BRANCH A UPSTREAM
156
134
140
146
Tx
Rx
Rx
Tx
TO/FROM MODEMS ON BRANCH B
152
BRANCH B UPSTREAM
158
136
142
148
Tx
Rx
Rx
Tx
TO/FROM MODEMS ON BRANCH C
154
BRANCH C UPSTREAM
160
TO CMTS

FIG. 8

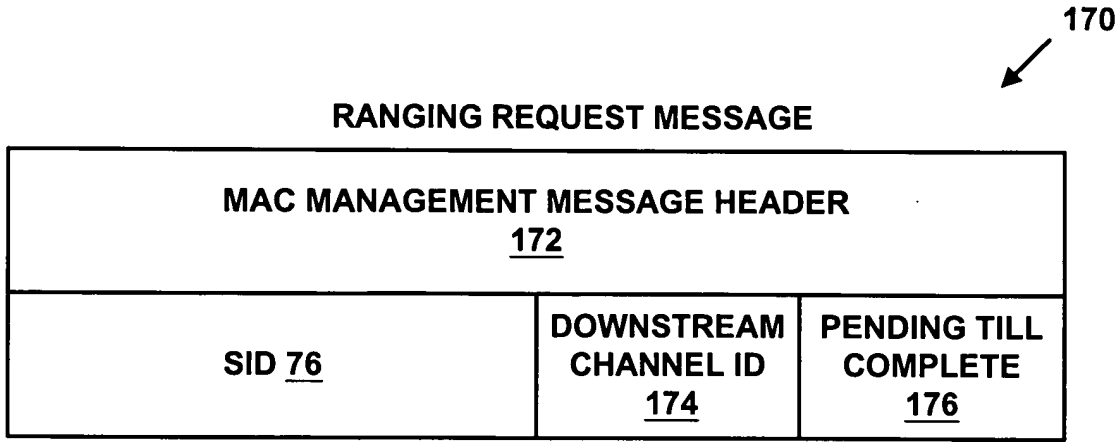


FIG. 9

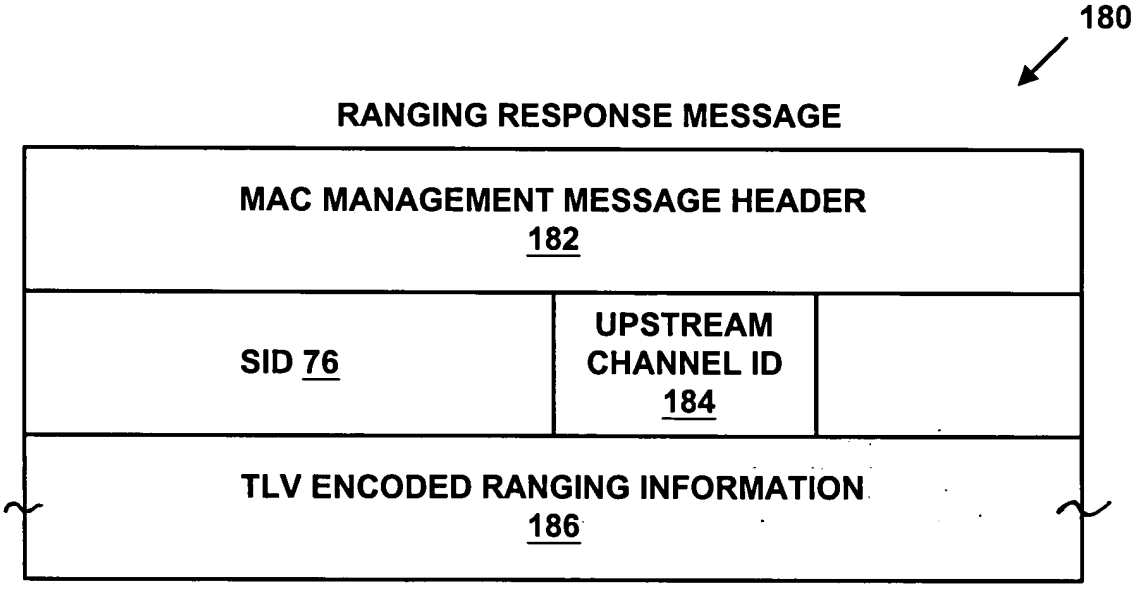


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FIG. 10A

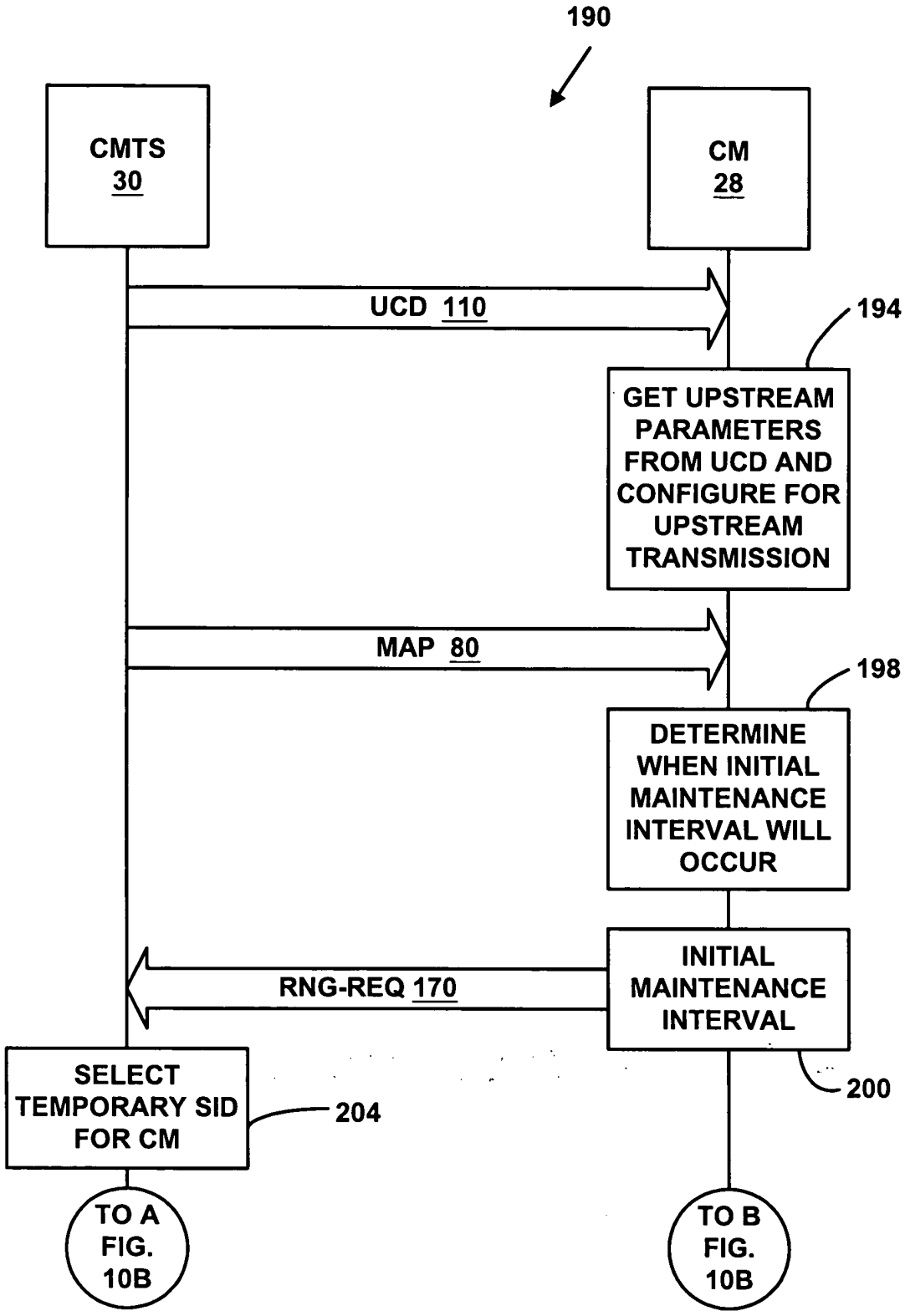
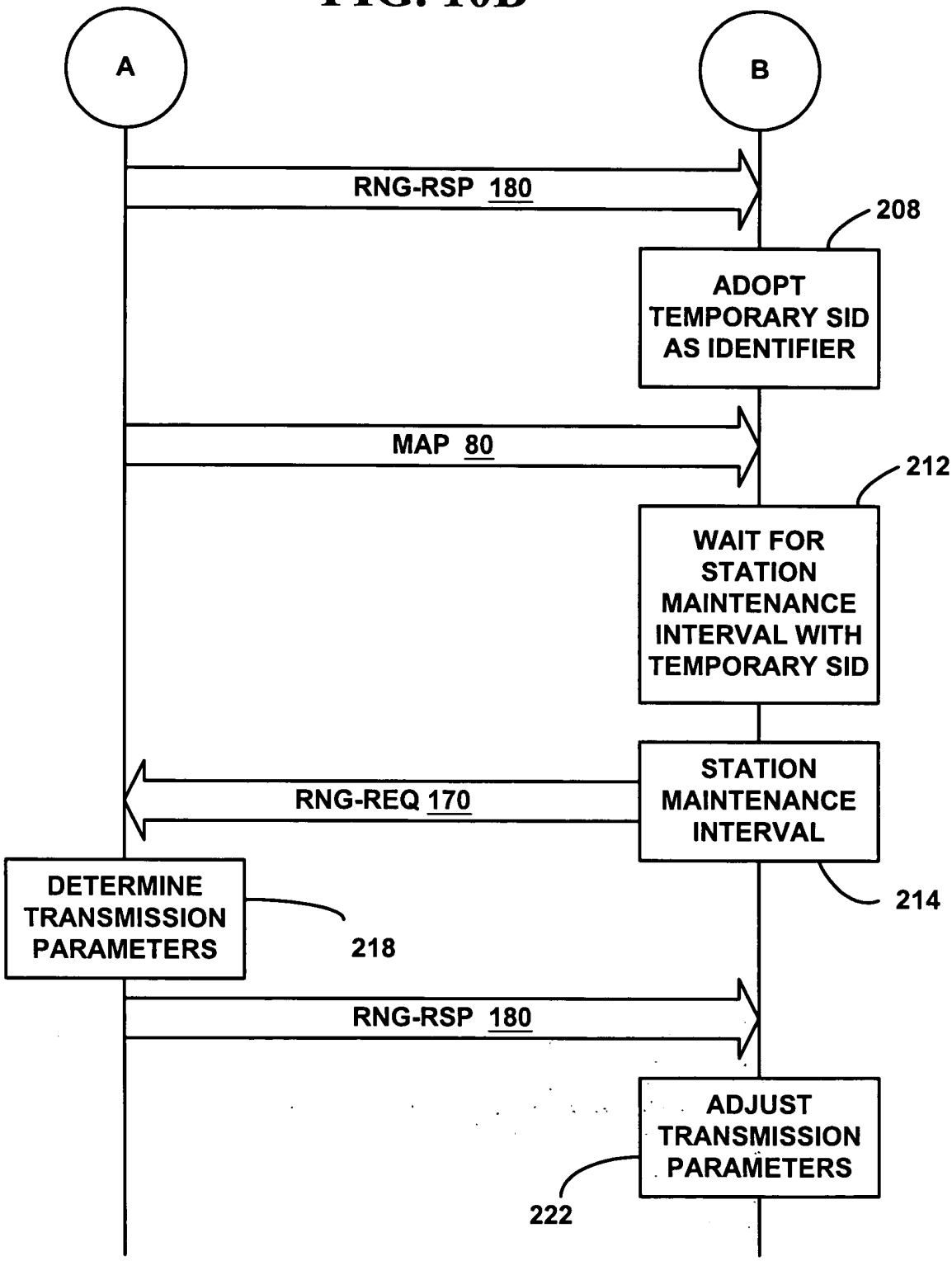

190
CMTS
30
CM
28
UCD 110
194
GET UPSTREAM PARAMETERS FROM UCD AND CONFIGURE FOR UPSTREAM TRANSMISSION
MAP 80
198
DETERMINE WHEN INITIAL MAINTENANCE INTERVAL WILL OCCUR
INITIAL MAINTENANCE INTERVAL
RNG-REQ 170
200
SELECT TEMPORARY SID FOR CM
204
TO A FIG. 10B
TO B FIG. 10B

FIG. 10B



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0000ET "6904270"

FIG. 11

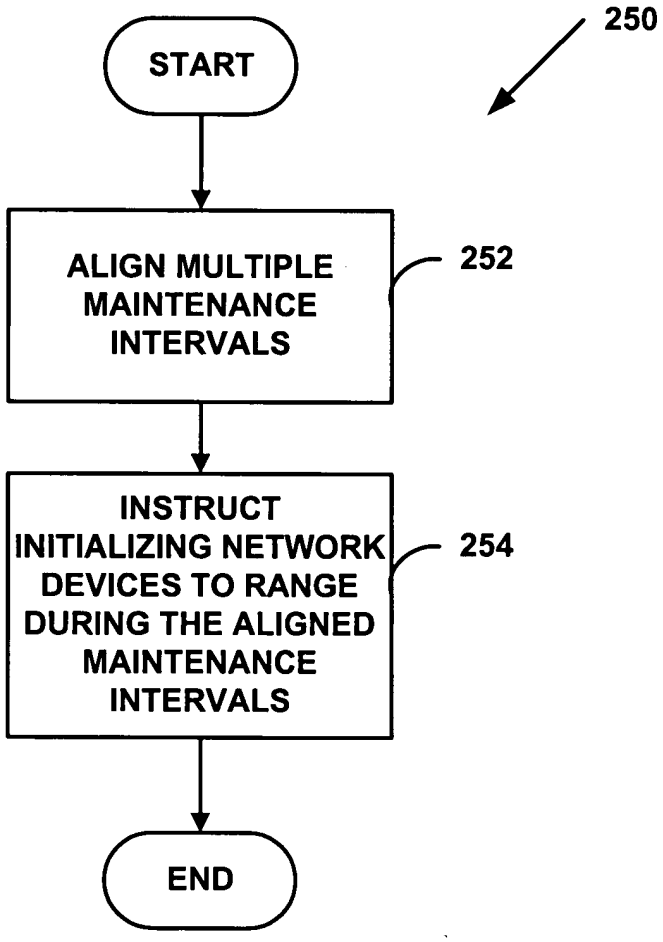

FIG. 12

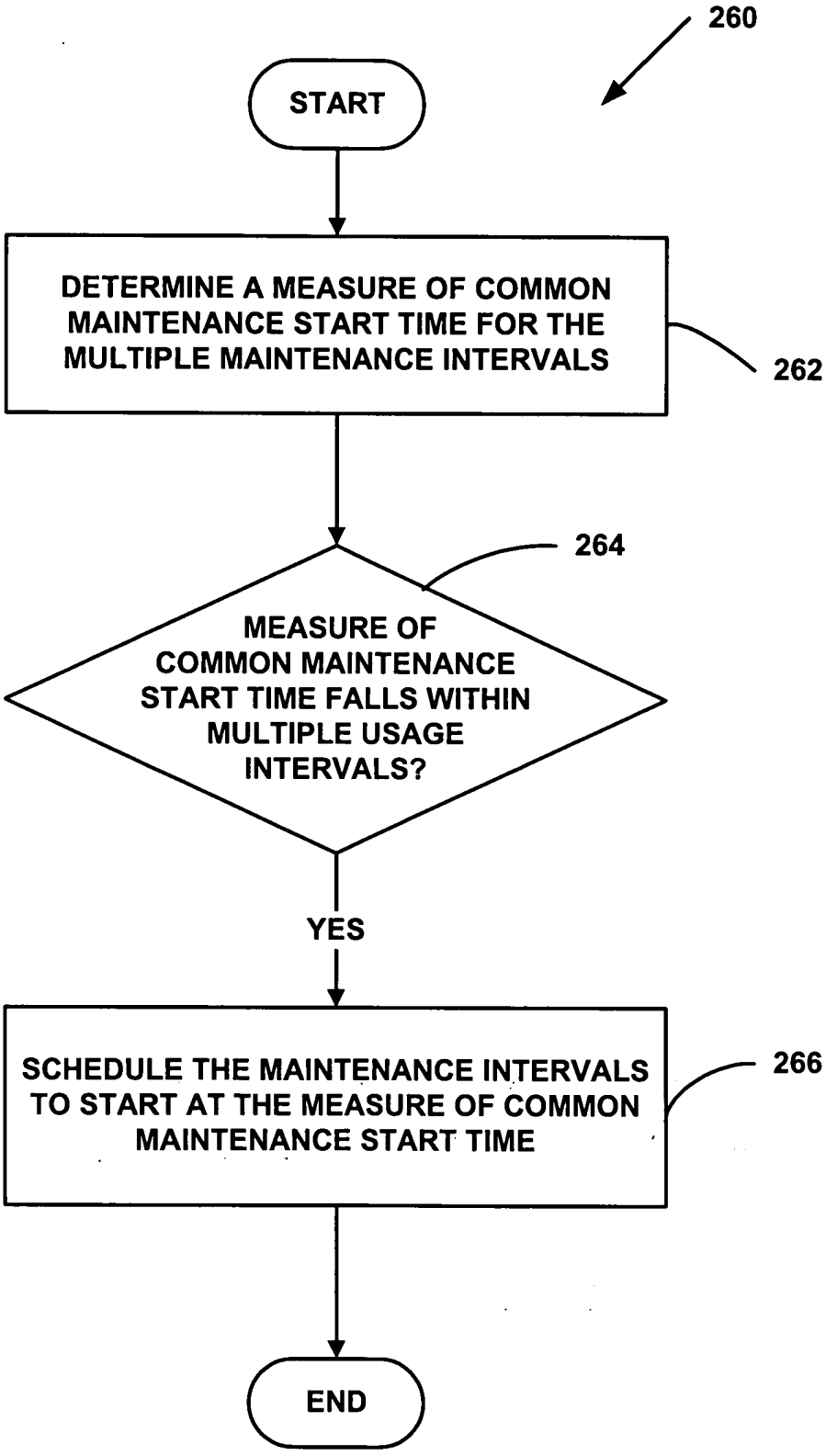

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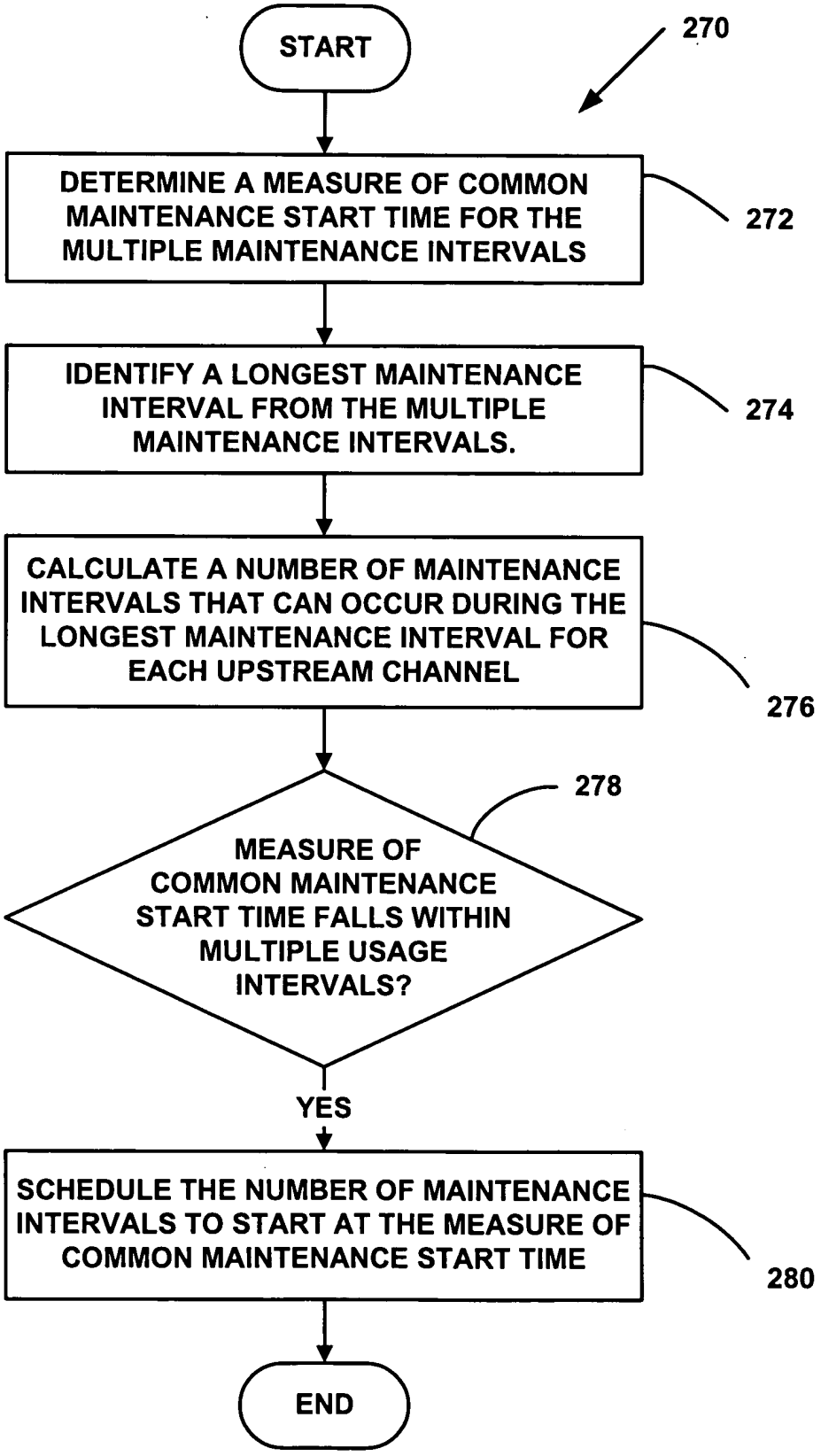
FIG. 13



0005174 "6902760